

I claim:

*Sub 1* 1. A multilayer composite body for the production of components or preforms, comprising:

thermoplastic layers having synthetic materials;

natural fiber layers bonded with thermoplastic synthetic material; and

at least one reinforcing insert adjacent said thermoplastic layers and said natural fiber layers, said at least one reinforcing insert having an open-pored fabric formed from fibers, said fabric penetrated from at least one side by melted synthetic materials of at least one of said adjacent natural fiber layers and said adjacent thermoplastic layers integrated into said fabric for reinforcement.

*Sub 2* 2. The multilayer composite body according to claim 1, wherein said synthetic material of said thermoplastic layers and said natural fiber layers has a melting temperature of < 250°C.

3. The multilayer composite body according to claim 1, wherein said synthetic material of said thermoplastic layers and said natural fiber layers is selected from the group

Sub F1  
cont. 1

consisting of polyethylene, polypropylene and ethylene vinyl acetate.

4. The multilayer composite body according to claim 1, wherein said natural fiber layers contain natural fibers formed from the group consisting of flax, hemp, sisal, jute and mixtures thereof.

5. The multilayer composite body according to claim 1, wherein said fibers of said fabric of said reinforcing insert are formed of melted synthetic materials selected from the group consisting of polyethylene terephthalate, polybutylene terephthalate, glass fibers, carbon fibers and a combination of different melted fibers.

6. The multilayer composite body according to claim 1, wherein:

Sub F1  
cont. 1

said at least one reinforcing insert is centrally disposed and has outer surfaces;

said natural fiber layers are first and second natural fiber layers disposed at said outer surfaces of said at least one reinforcing insert and having outer surfaces;

said thermoplastic layers are first and second thermoplastic

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cont

layers covering and bonded with said outer surfaces of said first and second natural fiber layers as an outer layer; and said thermoplastic synthetic bonding material of said natural fiber layers simultaneously penetrates said fibers of said fabric of said at least one reinforcing insert and said first and second thermoplastic layers.

7. The multilayer composite body according to claim 6, wherein:

said at least one reinforcing insert includes first, second and third reinforcing inserts;

said first reinforcing insert is disposed between said first and second natural fiber layers;

said second reinforcing insert is disposed between said first natural fiber layer and said first thermoplastic layer;

said third reinforcing insert is disposed between said second natural fiber layer and said second thermoplastic layer; and

said second and third reinforcing inserts are bonded into said thermoplastic material of said adjacent natural fiber and thermoplastic layers.

Sub F1  
Cont.

8. The multilayer composite body according to claim 1, wherein said thermoplastic layers are formed of a material selected from the group consisting of film material and fiber material becoming molten during molding of a component.

9. The multilayer composite body according to claim 1, wherein said thermoplastic layers have a variable volume and form outer component surfaces, and at least one of molded-in functional elements and surface structures are disposed in said outer component surfaces and correspond to said variable volume.

Sub F1  
Cont.

10. The multilayer composite body according to claim 1, wherein said thermoplastic layers are self-colored.

11. The multilayer composite body according to claim 1, wherein said thermoplastic layers have outer surfaces, and covering layers are bonded with said outer surfaces.

12. The multilayer composite body according to claim 1, wherein said at least one reinforcing insert has a higher melting point than said thermoplastic.

Sub F3

13. A motor vehicle component or preform produced from a multilayer composite, comprising:

natural fiber layers bonded with thermoplastic synthetic material; and

at least one reinforcing insert adjacent said thermoplastic layers and said natural fiber layers, said at least one reinforcing insert having an open-pored fabric formed from fibers, said fabric penetrated from at least one side by melted synthetic materials of at least one of said adjacent natural fiber layers and said adjacent thermoplastic layers integrated into said fabric for reinforcement.

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